

MODIS TECHNICAL TEAM MEETING

January 25, 1999

Vince Salomonson chaired the MODIS Technical Team Meeting. Present were Bill Barnes, Wayne Esaias, Al Fleig, Bruce Guenther, Steve Kempler, Gene Legg (NOAA), Ed Masuoka, Locke Stuart, and Deborah Howard.

1.0 SCHEDULE OF EVENTS

SWAMP Meeting (Boulder)	February 2-3, 1999
Infrared Workshop (Miami)	February 4-5, 1999
SDDT Meeting (GSFC)	February 10, 1999
Reflective Solar Bands Workshop (GSFC)	February 11-12, 1999 Building 32, Room E103/E109
MODLAND/SDST Meeting (GSFC)	March 30-31, 1999 Building 28, Room E210
Next MODIS Science Team Meeting	April or May 1999 (TBD)

2.0 MINUTES OF THE MEETING

2.1 Overview

Vince Salomonson opened the meeting with discussions on the agenda for the upcoming SWAMP meeting and on the wording for the Level 1 waivers. Some of the MODIS-related topics to be discussed at SWAMP include instrument validation, ocean products, calibration maneuvers, and science software status. Salomonson plans to report that PI processing is good. Kempler will give information on PGE Level 1 products to Masuoka or Vermote to present at the SWAMP meeting. Salomonson asked when MODIS data would be available for the science team and when it would be available for the general public. Fleig replied that the ocean products will be available before some of the land and atmosphere products. Legg added that NOAA data would be available no earlier than 9 months after launch. At the next Technical Team meeting on January 28 MODIS topics to be presented at SWAMP will be confirmed.

A discussion followed about the importance of including deep space and/or moon views from MODIS. Three options considered by the technical team include: 1) a deep space view without a moon view, 2) a space view and moon view, and 3) a moon view without a deep space view. One technical team member pointed out that if looking at PM, MODIS would be standing behind CERES. Esaias advocated the need for the deep space view.

Salomonson then lead a brief discussion on the wording of the waiver. The group discussed the pros and cons of comparing MODIS products to the heritage AVHRR

products. One technical team member recommended that the Sea Surface Temperature issue should be included.

2.2 Instrument Report

Bruce Guenther reported on the testing at Valley Forge. He estimated less than a 50% likelihood of getting less than a .5% error. Guenther described a 7- to 9-week impact on the FM1 schedule and said a bench test of the cooler and blackbody is needed. He noted that a 9-week slip on delivery of FM1 could have a 2- to 3-week impact on the AM launch schedule. He also described using witness samples for FM1 and applying them to PFM. Guenther reported an error in taking FM fixed optics and applying that to PFM that affects the calibration accuracy on PFM. However, he said that is better than not measuring it.

2.3 GDAAC Report

Steve Kemppler briefly summarized GDAAC Notes dated 1/21/99 (Attachment 1). He reported that the Level 1 DAAC is in good shape. However, there are scheduling issues about the Level 2 into the SIPS Interface and the SIPS Interface may not be ready at launch. A short discussion followed on when to distribute MODIS data to the science team and to the broader community.

2.4 SDST Report

Ed Masuoka presented highlights of the V2 SSI&T Schedule (Attachment 2). He commented that compressing MODIS data products in MODAPS production is being studied as an option to improve I/O performance and bandwidth for data distribution.

He also noted that the portion of the SIPS Interface that will deliver the Level 1 MODIS products to SDST is available in the current drop of the ECS system (Drop 4PX). The portion of the SIPS Interface that supports ingesting MODIS products delivered by MODAPS to the DAACs is not available until Drop 5A of the ECS system. This release will be available around 5/27/99 but will not be installed at most DAACs until late November or early December 1999.

Masuoka noted that the EASE grid currently is not supported. A tile boundary coordinates file from the Land Team is needed to get the EASE grid products working in MODAPS. Robert Wolfe will supply this shortly. For now the Level 3 snow and sea ice products only will be made in the MODIS grid in tests scheduled for February/March.

Masuoka commented that testing with synthetic data at the end of February will include improved Ocean water leaving radiance. However, the synthetic data still will be in the old L1B format.

2.5 MAST

Locke Stuart reported that Barbara Conboy is polling Science Team members to check on a good date for the next Science Team meeting. Conboy also is working with PAO

on a launch invitation list. Stuart reported that a potential newsletter format is being developed.

3.0 ACTION ITEMS

3.1 Action Items Carried Forward

1. Conboy and Howard: Plan for the next MODIS Science Team meeting in April or May.

Status: This item remains open.

2. Conboy: Work with Murphy on a launch invitation list; invite PAO to participate.

Status: This item remains open.

3. Conboy, Howard, and Ward: Develop a weekly MODIS news page linked to the MODIS home Web site. It should include hot items and reflect weekly progress.

Status: This item remains open.

4. Evans and Eicorn: Look into what can be done at Valley Forge without taking the instrument off the spacecraft.

Status: This item remains open.

5. Townshend: Prepare for getting the official word on the launch date.

Status: This item remains open.

6. Fleig: Follow up on the status of the PI Processing working agreement with ESDIS.

Status: This item remains open.

7. Murphy: Investigate the status of direct broadcast and present an update to the Technical Team.

Status: This item remains open.

8. Murphy: Coordinate a MODIS approach for radiance-to-brightness temperature conversions.

Status: This action remains open.

9. Masuoka: Submit an EOS-PM Data Product Update to ESDIS.

Status: This action item remains open.

10. Masuoka: Distribute an e-mail message summarizing the status of production rules at ECS.

Status: This material was presented at the last Science Team meeting (June 24-26). Masuoka will update this information and pass it along to the discipline group leaders.

11. Murphy: Speak to MCST and the discipline group leaders about what to include in a Version 2.1.1 Level 1B delivery.

Status: This item remains open.

12. Masuoka: Examine status of DAO ancillary products for MODIS.

Status: This item remains open.

3.1 Closed Action Items

1. Guenther: Deliver a schedule for an earlier date on Level 1 code. In addition work on, if possible, a more modularized version of the Level 1B code to minimize any problems from forthcoming software changes.

Status: This item is closed. Guenther provided this schedule to an early January premeeting to the SDDT meeting held on January 13.